BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Zone, Electrical Division

Detailed Estime for Electrical Repairs and Development works to parks of Ward No-04 of Yelahanka Zone

Budget Head

Ward No 4 Estimate No..... For Rs.2500000.00

Sl No	Description Of Work	Qty	Rate	Unit	Amount
	KPWD (Ele) S.R.2010-11				
1 69/4	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanized, steel wire/steel tap armoured cable with PVC outer sheathing 1.1KV Class I. Class 'A' PVC Cable d) 4 core 16sqmm	1350	150.00	Per Mtr	202500.00
2 69/5	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stoneware pipe/ on wall/ on pole as required. I. In existing trench /duct. a) 6sqmm to 16 sqmm	1350	8.00	Rmtr	10800.00
3 36/12	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and Complete wiring as required. b)40-63 Amps SP 1) Group 'A'	36	370.00	Each	13320.00
	f) 40-63 Amps TPN 1) Group 'A'	15	1495.00	Each	22425.00
4 41/38	Fabricating supplying and mounting MS box made out... SWG suitable for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer pain and finally finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete b) 16 SWG	124800	0.33	sqcm	41184.00
5 34/8	Supply and fixing of 4 pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947. d) 100 -125 Amps	12	7450.00	Each	89400.00
6 41/36	Supplying.....amps rated 3 phase with neutral bus bar using requirement capacity electrolytic aluminium strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6 mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete.a) 100Amps 4x30x6mm Alluminium Strips	1	1600.00	Rmtr	1600.00

7 9/32	Supplying and fixing electro mechanical timer (without contactor) using necessary bolts, nuts and washers etc., Group 'A' PWD SR 2007-08	15	4200.00	Each	63000.00
8 70/6	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete. (As per Civil SR KSRB 1-2, P-7)b. In hard Soil	1200	50.00	Rmtr	60000.00
9 41/37	Supplying and fixing angle iron frame work fabricated out of M.S angle iron... and M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. . (32.9a) a) 40x40x6mm	50	240.00	Rmtr	12000.00
10 20/14	Supplying High pressure... Watts Metal halide flood light luminary suitable for use with high pressure metal halide lamp with integrated control gear. The fitting shall be non corrosive high pressure die cast aluminium housing with low copper content black/grey powder coated pain finish including wiring, suitable to operate on 230/250 Volts 50 Hz AC supply with---- watts HP metal halide lamps. IV 400 Watts a) Group 'A'	10	8900.00	Each	89000.00
11 18/9	Supplying 70/125 Watts MH integral post top lantern Metal halide fitting suitable for pole mounted with fully vermin, weather proof, elegant in shpae, appearance, UV stabilized clear acrylic diffusers, camouflaged horizontal lamp, IP 54 protection. Electrical safety class 1. The fitting shall have ferromagnetic copper choke with capacitor, igniter and fully wired to operate on 230 V 50Hz AC supply with 70 /125 Watts MH Lamp..a) Group 'A'	250	5230.00	Each	1307500.00
12 28/6	Fixing charges of post top /Gate/Garden fitting on the existing CI /GI or any other pipe using required size of reducer, wiring using suitable wires etc..complete.	250	165.00	Each	41250.00
13 9/20	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multistrand Copper conductor single core cable in open or consealed system of wiring.I Group A .c) 2.5 sqmm	175	25.00	Per Mtr	4375.00
14 32/3	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers etc., complete.d) 100 Amps	18	415.00	Each	7470.00
15 73/20	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes f) 16 sqmm	28	14.00	Each	392.00
16 85/19	Supplying, installation, testing & commissioning of 12 V DC, AH batteries in poly propylene container for U.P.S Low maintenance Tubular batteries e)12 V, 120 AH capacity Battery- Acid Battery	10	12700.00	Each	127000.00
17 47/21	Supply of Specital type lamps e) 9/11 Watts CFL	10	140.00	Nos	1400.00
18 25/28	Supplying of light Emitting Diode (LED) street light fittings fabricated with die cast alluminimum base with suitable heat sink for heat dissipation ,the fitting should comprise efficient electronic driver & LED's (with 100-120 Lumens/LED) Completely wired to operate on 230V 50Hz AC supply, (Certificate for driver performance & LED lumens output LM 80 should be furnished) cree/nichia/osram make optically designed high efficiency LED lights should be used polycarbonate transparent cover with IP-66 protection. (INCLUDING 50000 Burning Hours) [Alloy ML-24] I Group A A) 24 Watts	15	6800.00	Each	102000.00

19 28/3	Supplying & fixing 50mm dia class A GI pipe up to 4.5 mtrs long with a reducing collar of 50x40mm to which an extenstion of 250mm pipe piece is fixed for 125 or 250/400 watts MV/ sodium vapour street light fitting using suitable clamps, bolts and nuts. And wiring using suitable capacity wires complete.	15	1740.00	Each	26100.00
Releasing and Refixing of Pathway Lighting Poles					
1	Digging of pits 1.5 mtr depth for errection of of 7.5/8 mtr Long steel/RCC/PSC/PCC supports Hard soi l5/1.2.2	15	529.00	Per Pit	7935.00
	Concrete Works Providing cement concrete to poles and guysets with material and labour including necessary curing etc., comlpete (cost does not include excavation) c) Providing coping for pole with CC1:2:4 (as per actuals) 29/1.8.3	15	200.00	Each	3000.00
2 33/2.2	Errection of Poles : Releasing and Re-Errection of Steel supports 9.0 to 10.00 mtr long such as 22.68 kg (50 lbs) Rail, I beam of sizes 200 X 100 mm, 175X 90 mm , 125 X 100 mm, Fabricated poles, tubular poles in pits of 1.8 mtr Depth, aligning, refilling with soil For Errection =Rs 154.00 releasing of materials shall be 90 % of the cost of ereection as per bescom circular BES/GM/(T)/BC-20/F-664/05-06/CYS 174 Dt:10.01.06. Therefore Releasing and Re-Errection = Rs 154.00+ 0.9X154.00=292.60	15	292.60	Nos	4389.00
3 119/13.14	Street Light and other Works Releasing and Fixing of mercury Vapour lamp fitting /Ornamental light fitting with Control Boxes etc. For Fixing =Rs 224.00 releasing of materials shall be 90 % of the cost of ereection as per bescom circular BES/GM/(T)/BC-20/F-664/05-06/CYS 174 Dt:10.01.06. Therefore Releasing and Fixing = Rs 224.00+ 0.9X224.00=292.60	15	425.60	Set	6384.00
4	Hire Charges Components for Crane Charges ,Sl no 66, Page No XXXVI, KPWD SR CIVIL 2010-12	1	3200.00	Day	3200.00
	Hire Charges Components for Tractor 50 HP ,Sl no 20, Page No XXXIV, KPWD SR CIVIL 2010-11. Per Day Rs 2240.00	1	2240.00	Day	2240.00
5	Supplying and Fixing 4 Nos of 590 mm length High Yield Tensile Cold Rolled Pitched threads (680 N/sq mm) 27 mm Bolt dia (Mkt Rate)	3	1350.00	Nos	4050.00
6 55/63	Painting of existing street light pole after scrapping the old paint and painted with suitable colour enamel/Silver paint including coping/looting of the pole. a) Upto 5 Mtr street light pole	15	260.00	Nos	3900.00

	Casting of suitable foundation for the Octagonal Pole including designing and cost of all materials like Anchor plates,Template and washers labour charges, all other incidental charges etc,. complete as per specification and Drawing given in KPWD elect SR 2010-11(P.No 103) Detailed Calculation as per CIVIL SR items Enclosed.	3	4929.74	Each	14789.22
	Sub Total				**2272605.22**
	KRIDL CHARGES @10% of Estimates				**227260.52**
	Miscellaenous				134.26
	TOTAL				**2500000.00**

CERTIFICATE :-

1. The place was inspected and the work is essential.
2. The provision made in the estimate are adequate and necessary and the work comes in the BBMP limit and is legitimate Charges on the BBMP funds.
3. The estimate is based on KPWD (Ele) S.R.2010-11 Rates and S.R.Rates

Assistant Engineer (Ele)
Yelahanka Zone

Asst. Executive Engineer (Elecl)
Yelahanka Zone

EXECUTIVE ENGINEER (ELECL)
Yelahanaka Zone, BBMP

Sanction for Rs. 25.00 LAKHS

is accorded under head.... P0088

registered as CE No. 281 Dt: 14.02.2014 Subject to Conditions contained in enclosed memo

No...../.....Dt.....

AE/JE TA SE (BTP) CE (BTP)

ADMINISTRATIVELY SANCTIONED FOR Rs. 25.00 lakhs

Rupees Twenty five lakhs only

Under

In SE( ) No ....

Subject ... in

enclosed ....

Dt ... Estimated

Addl Comr (1) AS No 748/13-14

dated 4-1-2014 Rs 25.00 lakhs

Addl Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92